



HARWIN

Guide to Datamate
Latches and Jackscrews

- Datamate **L-Tek**
- Datamate **J-Tek**
- Datamate **101 Lok**

Guide to Datamate Latches and Jackscrews

LATCHES AND JACKSCREWS – WHICH IS BEST?

To help with your Datamate Connector identification and selection, here is a guide to the types of fixings available in the range, covering Latches, Jackscrews and the 101Lok fixing options...

Datamate **L-Tek**

Datamate **J-Tek**

Datamate **101 Lok**

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DATAMATE L-TEK – THE ORIGINAL

L-Tek is short for **Latching Technology** – mating connectors are given added separation force using a choice of latches.

Advantages

- Fast mating
- Established product, stocked in depth
- Less board real estate used than the other Datamate options
- Single row connectors available

Disadvantages

- Fast mating
- Locking latches require a specific tool to un-mate the connectors
- No board hold-down options
- Only available in a selection of pin counts:
 - 2 to 7, 17 & 22 (Single row)
 - 4 to 20, 26, 34, 44 (Double row)

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DATAMATE L-TEK – THE RANGE

 <p>Locking Latch (also just referred to as Latch):</p> <ul style="list-style-type: none"> ▪ Positively locks connectors together ▪ Requires a tool to un-mate the connectors (Z80-299) 	 <p>Friction Latch (note: no “window”):</p> <ul style="list-style-type: none"> ▪ No tool required to separate connectors ▪ Adds 2-2.5N to the separation force ▪ Obsolete from 7th September 2018
 <p>No Latch assembled:</p> <ul style="list-style-type: none"> ▪ Most commonly used on board-to-board assemblies 	 <p>Female:</p> <ul style="list-style-type: none"> ▪ Note the bump used to mate with the latch

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DATAMATE L-TEK – OTHER NOTES

All styles of connector are available in a choice of RoHS compliant finishes:

- Gold on contact area, 100% Tin on Tails/Outer Shell (over nickel)
- Gold over the complete contact

PCB mounting connectors (Through Tail and SMT) may still be available with Tin/Lead plated tails as a Non-RoHS option – check website for availability.

Use the online [Browser](#) to help select the parts required.

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DATAMATE J-TEK – THE FLEXIBLE RANGE

J-Tek is short for **Jackscrew Technology** – this range has a wide choice of jackscrew styles, based on an M2 thread.

Advantages





- Wide range of secure fixing and locating styles possible
- Board mount, panel mount and guide pin options
- Contact count of 04 to 50 available in the majority of designs

Disadvantages

- Jacking connectors together can be time-consuming, and requires a screwdriver or hex/allen key
- Double row connectors only





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DATAMATE J-TEK – HIGHLIGHTS (MALE)

 <p>Vertical Jackscrew:</p> <ul style="list-style-type: none"> Available with or without board mount fixing underneath Slotted screwdriver available for use with the board mount nuts (Z80-298) 	 <p>Horizontal Jackscrew:</p> <ul style="list-style-type: none"> Also available with or without board mount fixing underneath
 <p>Reverse Fix:</p> <ul style="list-style-type: none"> For use with male cable connectors, when the female is on the PCB M2 Male thread not shown at this angle, sits inside the moulding 	 <p>No Jackscrew:</p> <ul style="list-style-type: none"> Option available for customers that do not require any fixing, but have to use J-Tek to get the right number of contacts

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DATAMATE J-TEK – HIGHLIGHTS (FEMALE)

 <p>Jackscrew:</p> <ul style="list-style-type: none"> Available in either hexagonal socket for hex/allen key (as shown), or with a screwdriver slot and hexagonal outer shape 	 <p>Female Guide Pin:</p> <ul style="list-style-type: none"> Mates with any threaded male jackscrew Used in board-to-board for blind mating, and has board mount fixing
 <p>Reverse Fix:</p> <ul style="list-style-type: none"> When using board mounted female with cable male connectors With board mount fixing 	 <p>No Jackscrew:</p> <ul style="list-style-type: none"> More commonly used on board-to-board layouts, where the boards are fixed by other methods

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DATAMATE J-TEK – OTHER NOTES

- Other jackscrew styles are available – have a look at the online [Browser](#) for all the current options.
- If you need something faster than screwing together jackscrews – read on!
- As with L-Tek, all styles of connector are available in a choice of RoHS compliant finishes:
 - Gold on contact area, 100% Tin on Tails/Outer Shell (over nickel)
 - Gold over the complete contact
- And also, PCB mounting connectors (Through Tail and SMT) may still be available with Tin/Lead plated tails as a Non-RoHS option – check website for availability.

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DATAMATE 101LOK – FAST, SECURE MATING

101Lok is a variant on the J-Tek, unique to Harwin. It utilises a bayonet-style design to combine the advantages of both fixing systems.

Advantages

- Fast mating and unmating – no screwing required!
- Board mount options available
- Contact count from 04 to 50 available in the majority of designs

Disadvantages

- Double row connectors only

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DATAMATE 101LOK – IN PICTURES



Male 101Lok:

- Available in Vertical or Horizontal orientations, both with or without board mount fixing



Female 101Lok:

- Slotted and hex/allen key versions available

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DATAMATE 101LOK – OTHER NOTES

- See more information on the products available in the 101Lok range on our [product feature](#) page.
- Samples are available [on request](#) if you want to try any of these connectors.
- Finish options are the same as the rest of Datamate: all styles of connector are available in a choice of RoHS compliant finishes...
 - Gold on contact area, 100% Tin on Tails/Outer Shell (over nickel)
 - Gold over the complete contact
- PCB mounting connectors (Through Tail and SMT) may still be available with Tin/Lead plated tails as a Non-RoHS option – check website for availability.

Learn more about our other ranges



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